



State of Utah—Department of Administrative Services
 DIVISION OF FACILITIES CONSTRUCTION
 AND MANAGEMENT
 4110 State Office Building/Salt Lake City, Utah 84114/538-3018

STATE OF UTAH

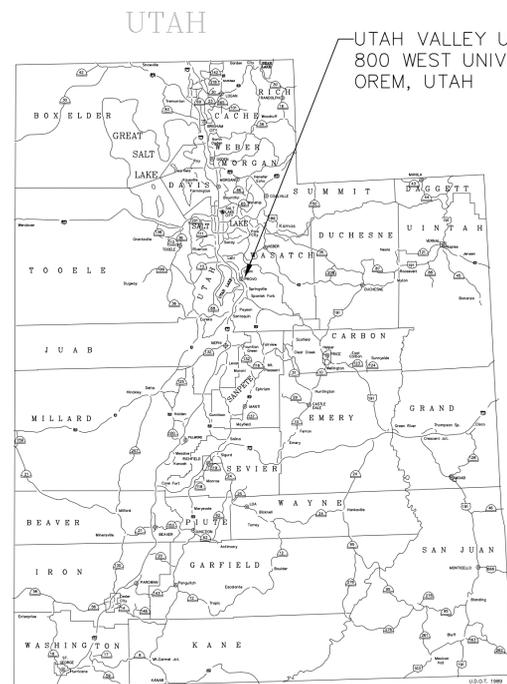
UTAH VALLEY UNIVERSITY INTRAMURAL PLAYING FIELD IMPROVEMENTS DFCM PROJECT NO. 09025790



| SHEET | NAME |
|-------|----------------------------|
| G-001 | TITLE |
| G-002 | WORK LOCATIONS AND NOTES |
| C-100 | EROSION CONTROL PLAN NORTH |
| C-101 | DEMOLITION PLAN - NORTH |
| C-102 | LAYOUT - NORTH |
| C-103 | EROSION CONTROL PLAN SOUTH |
| C-104 | DEMOLITION PLAN - SOUTH |
| C-105 | LAYOUT - SOUTH |
| C-501 | CIVIL DETAILS |
| L-101 | IRRIGATION PLAN - NORTH |
| L-102 | IRRIGATION PLAN - SOUTH |
| L-501 | IRRIGATION DETAILS |

King
 Engineering,
 Inc. 2825 E Cottonwood Parkway
 Salt Lake City, Utah 84121
 Phone: 801.990.3170
 Fax: 801.990.3293
 Internet: www.pavementmanagement.com
 CREATED BY: KING ENGINEERING, INC.

**UTAH VALLEY UNIVERSITY
 INTRAMURAL PLAYING FIELD IMPROVEMENTS**



VICINITY MAP

UTAH VALLEY UNIVERSITY
 800 WEST UNIVERSITY PARKWAY
 OREM, UTAH



NORTH



LOCATION MAP

UTAH VALLEY UNIVERSITY
 800 WEST UNIVERSITY PARKWAY
 OREM, UTAH

SITE/LOCATION:

UTAH VALLEY
 UNIVERSITY

PROJECT TITLE:

INTRAMURAL
 FIELD
 IMPROVEMENTS

MARK DATE DESCRIPTION

ISSUE TYPE: BID PLANS

ISSUE DATE: JULY 3, 2009

DFCM PROJECT NO: 09025790

CAD PROJECT NO: 02-XXX

CAD DWG FILE: G-001.DWG

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SHEET TITLE

TITLE SHEET

SHEET NUMBER

G-001

SHEET 1 OF 12

BID PLANS



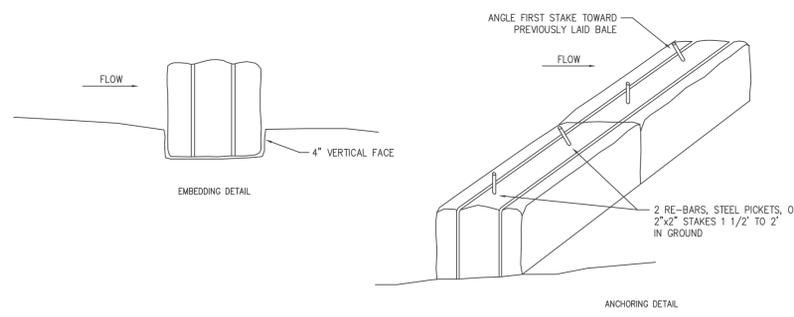
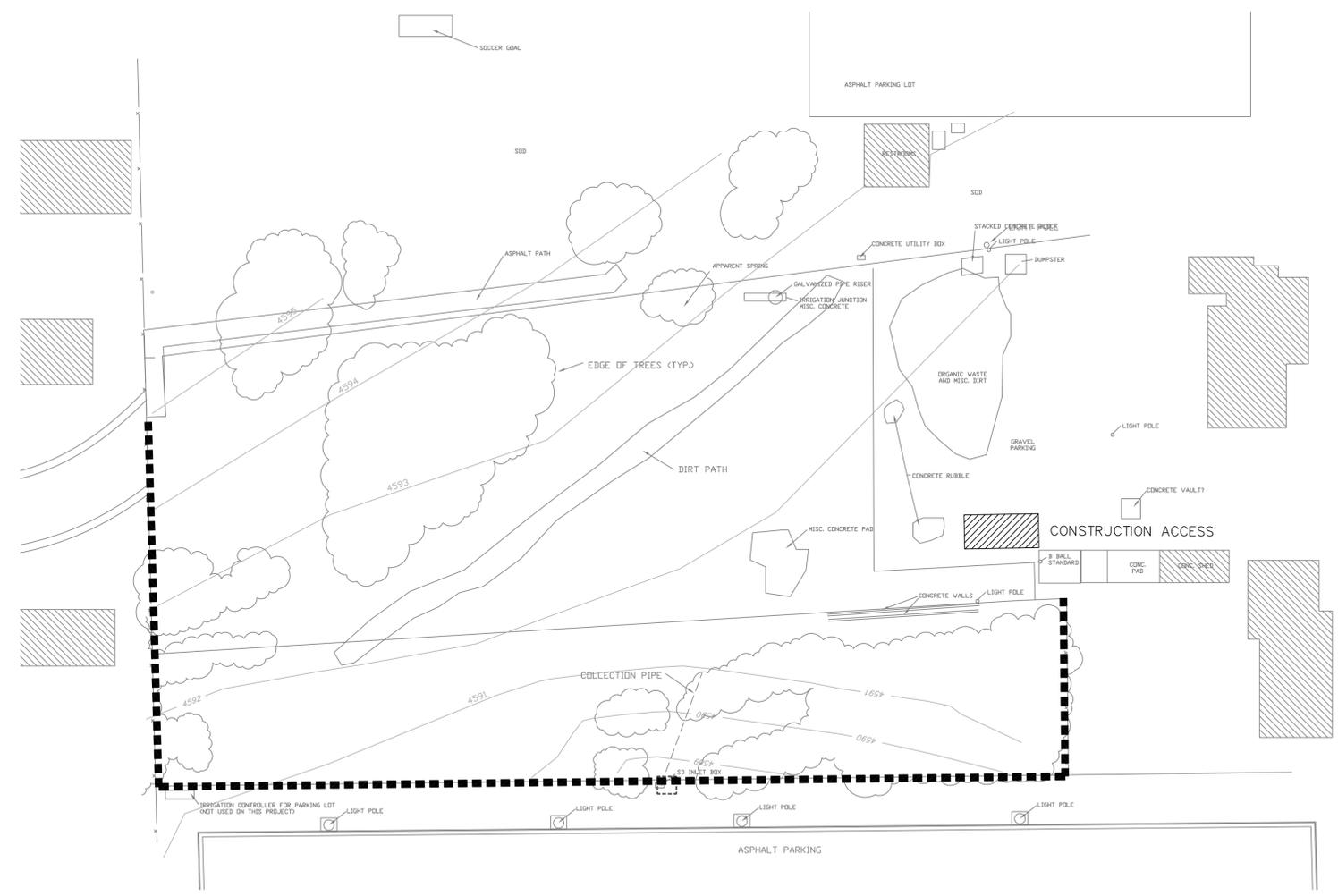
SCALE 1"=40'

EROSION PLAN LEGEND

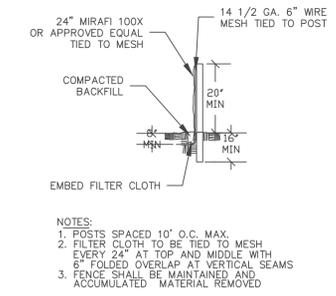
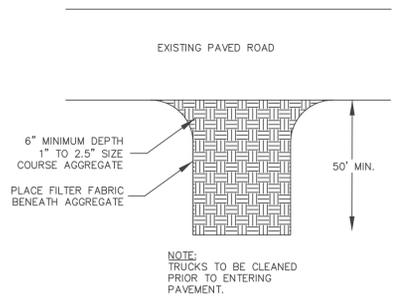
- SILT FENCE
SEE DETAIL C THIS SHEET
- STABILIZED CONSTRUCTION ENTRANCE.
SEE DETAIL B THIS SHEET.
- STORM INLET SILT PROTECTION.
PLACE STRAW BALES AROUND INLET.
SEE DETAIL A THIS SHEET.

EROSION PLAN NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT PRIOR TO START OF CONSTRUCTION.
2. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.
3. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORSEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE OREM CITY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS FROM TRAFFIC FROM THE SITE.
5. ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE NEED TO BE PROTECTED FROM SITE RUNOFF.
6. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED, OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR SEED MIX AND PLANTING SPECIFICATIONS.
7. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION, EROSION CONTROL IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
8. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED.
9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
10. BLOWING DUST MUST BE CONTROLLED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS ABSOLUTELY PROHIBITED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
12. ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
13. ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS TO BE DONE IMMEDIATELY UPON DISCOVERY.
14. ALL UTILITY LINES SHALL BE CLEANED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE. DOWN-GRADE LINES MUST BE PROTECTED FROM WASH-WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS



- NOTES:
1. Bales shall be placed in a row with ends tightly abutting adjacent bales.
 2. Each bale shall be embedded in soil a min. of 4".
 3. Bales shall be securely anchored in place by stakes or rebar driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.



STORM INLET PROTECTION
SCALE: NTS

STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS

SILT FENCE
SCALE: NTS

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**UTAH VALLEY UNIVERSITY
INTRAMURAL PLAYING FIELD IMPROVEMENTS**

SITE/LOCATION:

UTAH VALLEY UNIVERSITY

PROJECT TITLE:

INTRAMURAL FIELD IMPROVEMENTS

MARK / DATE / DESCRIPTION
ISSUE TYPE: BID PLANS
ISSUE DATE: JULY 3, 2009

DFCM PROJECT NO: 09025790
CAD PROJECT NO: 02-XXXX
CAD DWG FILE: C-100.DWG
DRAWN BY: AD
CHKD BY: JEK
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SHEET TITLE
EROSION CONTROL PLAN - NORTH

SHEET NUMBER

C-100

SHEET 3 OF 12



0 30
SCALE 1"=30'

CREATED BY: KING ENGINEERING, INC.

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MARK DATE DESCRIPTION

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ISSUE DATE: JULY 3, 2009

DCFM PROJECT NO: 09025790

CAD PROJECT NO: 02-XXXX

CAD DWG FILE: C-101.DWG

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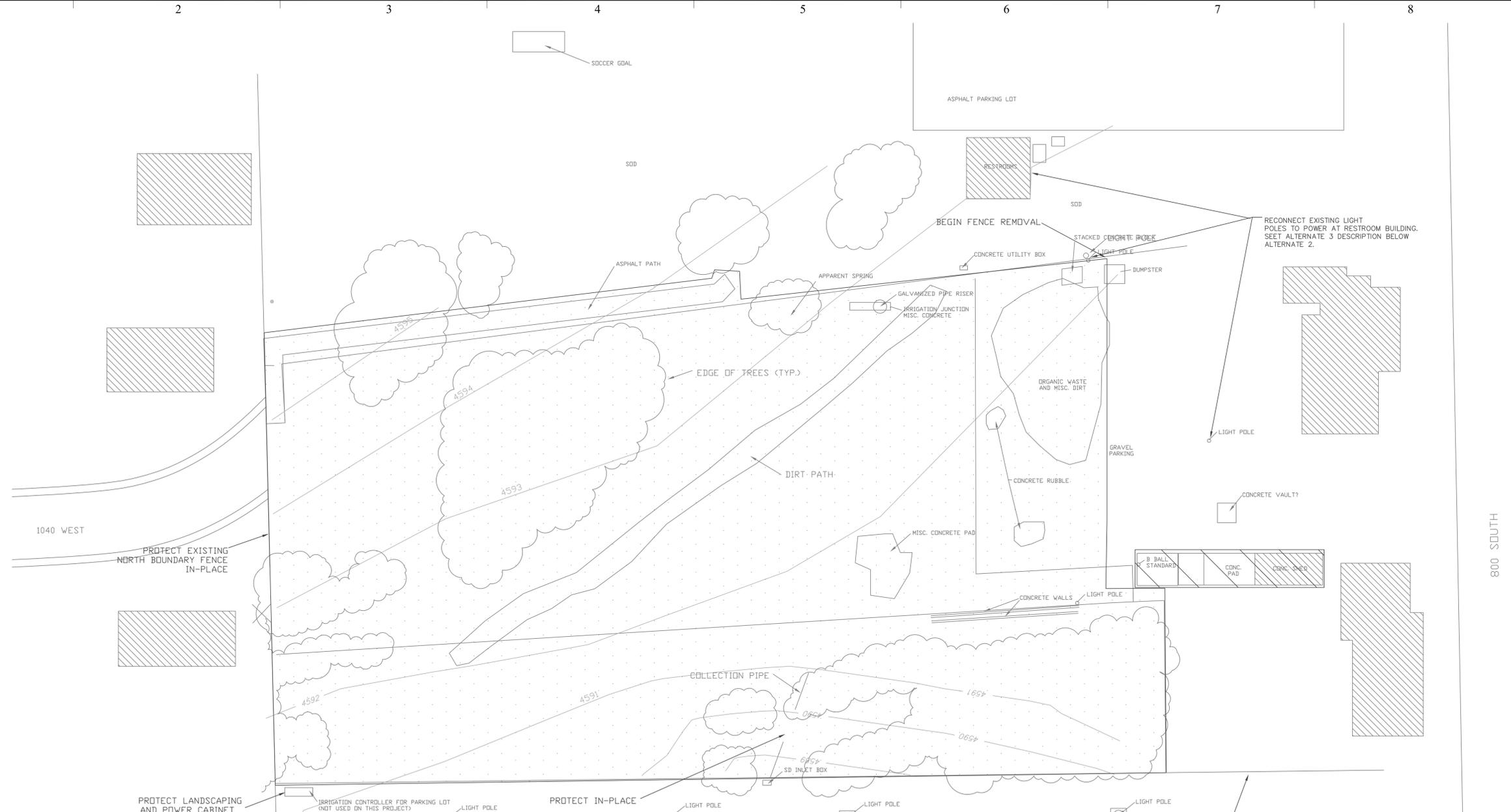
SHEET TITLE

DEMOLITION PLAN NORTH

SHEET NUMBER

C-101

SHEET 4 OF 12



NOTES:

1. THE CONTOURS SHOWN ARE APPROXIMATE. THEY ARE SHOWN FOR GENERAL GUIDANCE ONLY.
2. THE LOCATION AND SIZE OF ALL FEATURES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND COMPOSITION OF ALL PILES OF REFUSE AND MATERIAL TO BE REMOVED.
3. THE CONTRACTOR SHALL PROTECT ALL LIVE UTILITY LINES IN-PLACE.
4. NO BURNING SHALL BE ALLOWED.

ALTERNATE 1. CLEAR AND GRUB TO A 6" DEPTH AND DISPOSE OF GRUBBING OFF-SITE. COMPLETELY REMOVE ALL TREES INCLUDING ROOTS AND BOLES AND DISPOSE OF OFF-SITE. REMOVE ALL INTERIOR FENCES AS SHOWN AND DISPOSE OF OFF SITE. REMOVE ALL REFUSE INCLUDING CONCRETE, CONCRETE FOUNDATIONS, ASPHALT, DIRT, CLIPPINGS, SOIL, ETC. THAT HAVE BEEN PILED WITHIN THE WORK AREA AND DISPOSE OF AT AN APPROVED FACILITY OFF-SITE. CONTRACTOR TO VERIFY THE EXTENT AND COMPOSITION OF ALL REFUSE TO BE REMOVED PRIOR TO BID. APPROXIMATELY 125,000 S.F.

ALTERNATE 2. REMOVE EXISTING CONCRETE STRUCTURE AND DISPOSE OF AT AN APPROVED FACILITY OFF-SITE. RECONNECT BOTH YARD LIGHTS (SHOWN) TO RESTROOM LOCATED TO THE EAST. ALL POWER LINES SHALL BE BURIED A MIN. OF 18" IN 1" DIA. SCH 40 PVC CONDUIT.





0 50
SCALE 1"=50'

EROSION PLAN LEGEND

- SILT FENCE
SEE DETAIL C THIS SHEET
- STABILIZED CONSTRUCTION ENTRANCE.
SEE DETAIL B THIS SHEET.
- STORM INLET SILT PROTECTION.
PLACE STRAW BALES AROUND INLET.
SEE DETAIL A THIS SHEET.

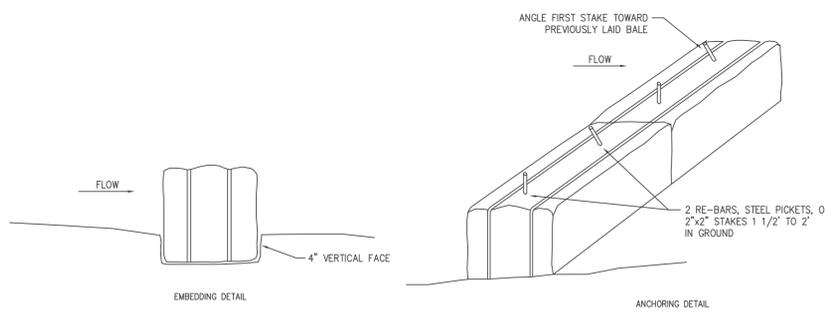
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15. THE CONTRACTOR SHALL PROTECT THE EXISTING CONCRETE CURB AND GUTTER AND ROADWAY AT THE CONSTRUCTION ACCESS.

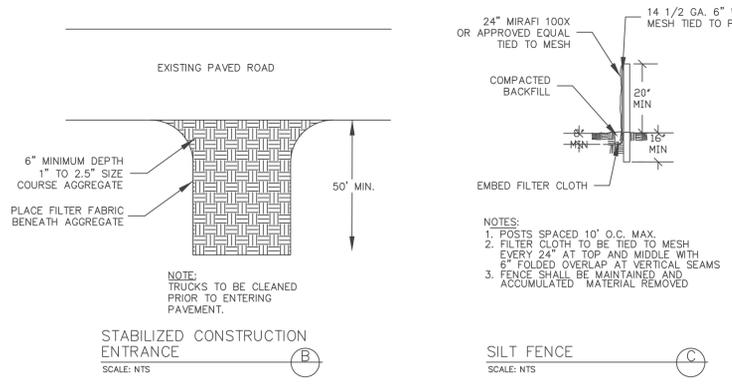
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**UTAH VALLEY UNIVERSITY
INTRAMURAL PLAYING FIELD IMPROVEMENTS**

| | | |
|-------------------------------|--|--|
| SITE/LOCATION: | | |
| UTAH VALLEY UNIVERSITY | | |
| PROJECT TITLE: | | |
| INTRAMURAL FIELD IMPROVEMENTS | | |
| MARK / DATE / DESCRIPTION | | |
| ISSUE TYPE: BID PLANS | | |
| ISSUE DATE: JULY 3, 2009 | | |
| DFCM PROJECT NO: 09025790 | | |
| CAD PROJECT NO: 02-XXXX | | |
| CAD DWG FILE: C-100.DWG | | |
| DRAWN BY: AD | | |
| CHKD BY: JEK | | |
| COPYRIGHT: DFCM | | |
| SHEET TITLE | | |
| EROSION CONTROL PLAN - SOUTH | | |
| SHEET NUMBER | | |
| C-103 | | |
| SHEET 6 OF 12 | | |



- NOTES:
1. Bales shall be placed in a row with ends tightly abutting adjacent bales.
 2. Each bale shall be embedded in soil a min. of 4".
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 4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.



STORM INLET PROTECTION
SCALE: NTS

STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS

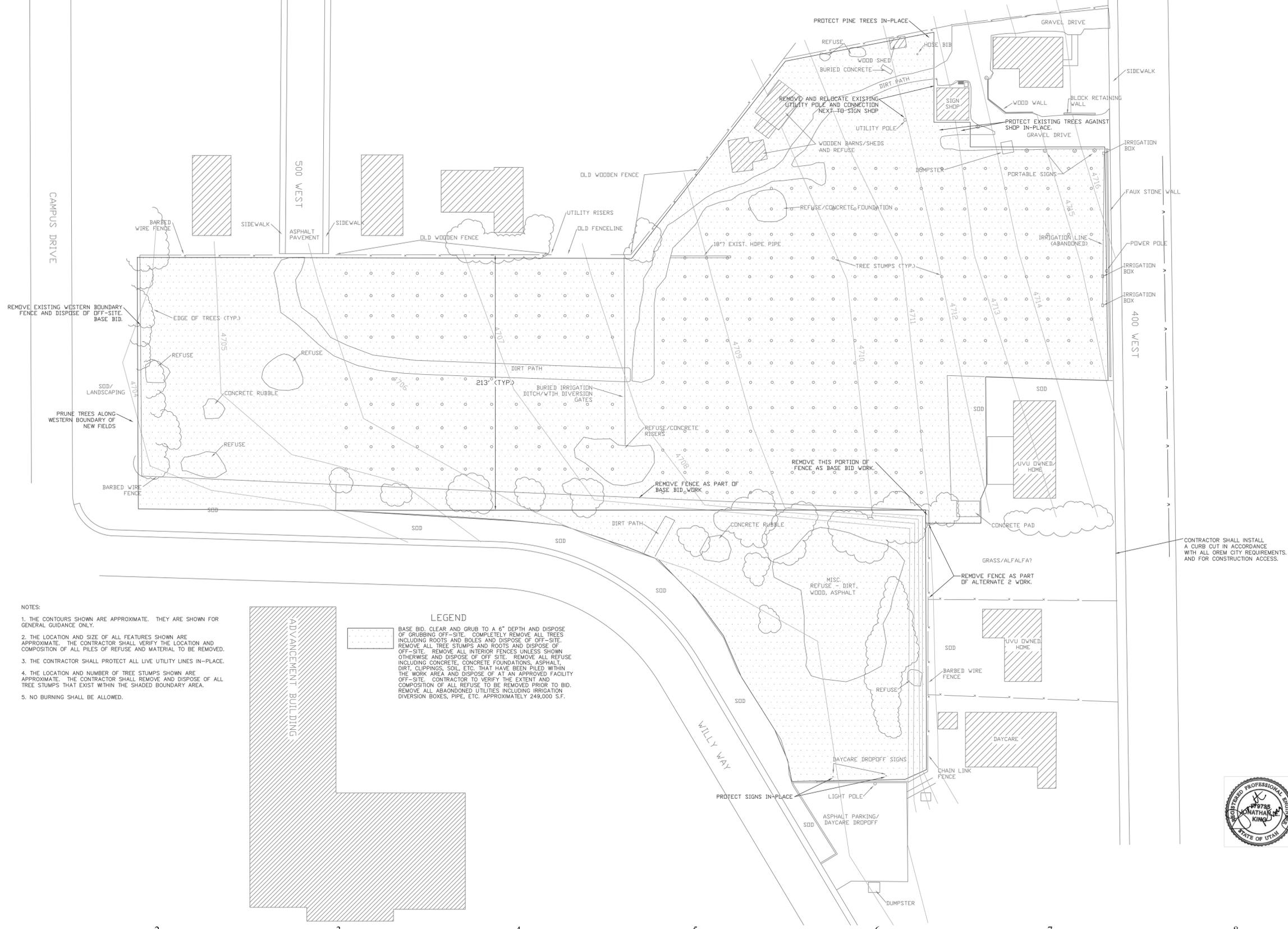
SILT FENCE
SCALE: NTS



0 40
SCALE 1"=40'

CREATED BY: KING ENGINEERING, INC.

**UTAH VALLEY UNIVERSITY
INTRAMURAL PLAYING FIELD IMPROVEMENTS**



- NOTES:
1. THE CONTOURS SHOWN ARE APPROXIMATE. THEY ARE SHOWN FOR GENERAL GUIDANCE ONLY.
 2. THE LOCATION AND SIZE OF ALL FEATURES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND COMPOSITION OF ALL PILES OF REFUSE AND MATERIAL TO BE REMOVED.
 3. THE CONTRACTOR SHALL PROTECT ALL LIVE UTILITY LINES IN-PLACE.
 4. THE LOCATION AND NUMBER OF TREE STUMPS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREE STUMPS THAT EXIST WITHIN THE SHADED BOUNDARY AREA.
 5. NO BURNING SHALL BE ALLOWED.

LEGEND

BASE BID. CLEAR AND GRUB TO A 6" DEPTH AND DISPOSE OF GRUBBING OFF-SITE. COMPLETELY REMOVE ALL TREES INCLUDING ROOTS AND BOLES AND DISPOSE OF OFF-SITE. REMOVE ALL TREE STUMPS AND ROOTS AND DISPOSE OF OFF-SITE. REMOVE ALL INTERIOR FENCES UNLESS SHOWN OTHERWISE AND DISPOSE OF OFF SITE. REMOVE ALL REFUSE INCLUDING CONCRETE, CONCRETE FOUNDATIONS, ASPHALT, DIRT, CLIPPINGS, SOIL, ETC. THAT HAVE BEEN PILED WITHIN THE WORK AREA AND DISPOSE OF AT AN APPROVED FACILITY OFF-SITE. CONTRACTOR TO VERIFY THE EXTENT AND COMPOSITION OF ALL REFUSE TO BE REMOVED PRIOR TO BID. REMOVE ALL ABANDONED UTILITIES INCLUDING IRRIGATION DIVERSION BOXES, PIPE, ETC. APPROXIMATELY 249,000 S.F.

CONTRACTOR SHALL INSTALL A CURB CUT IN ACCORDANCE WITH ALL OREM CITY REQUIREMENTS AND FOR CONSTRUCTION ACCESS.



SITE/LOCATION:

UTAH VALLEY UNIVERSITY

PROJECT TITLE:
INTRAMURAL FIELD IMPROVEMENTS

MARK / DATE / DESCRIPTION
ISSUE TYPE: BID PLANS
ISSUE DATE: JULY 3, 2009

DFCM PROJECT NO: 09025790
CAD PROJECT NO: 02-3333
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SHEET TITLE
DEMOLITION PLAN SOUTH

SHEET NUMBER

C-104

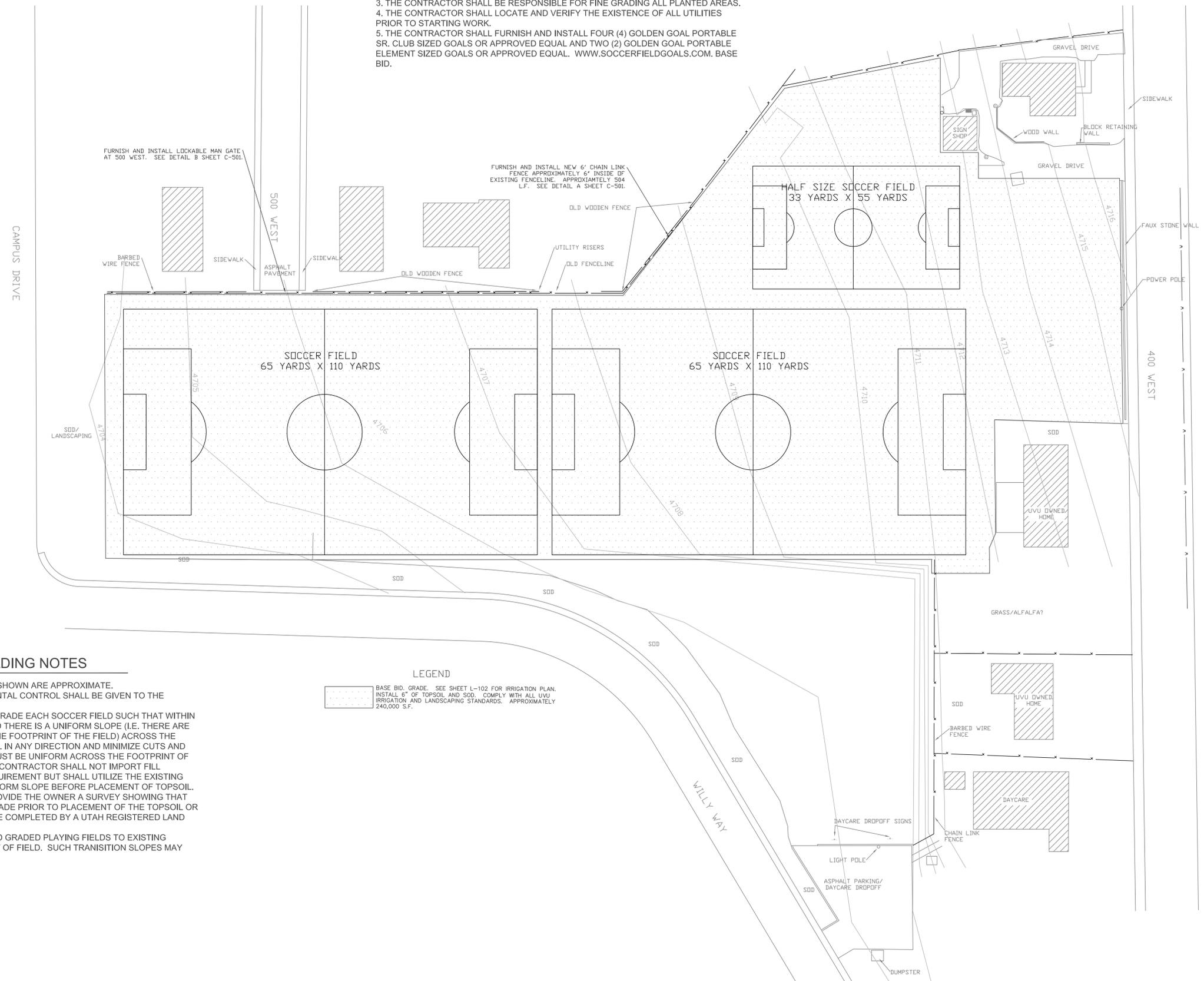
SHEET 7 OF 12



0 40
SCALE 1"=40'

NOTES

1. ALL SOD AND IRRIGATION WORK SHALL BE PERFORMED BY A LICENSED LANDSCAPE CONTRACTOR.
2. ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY FOR A DECISION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING ALL PLANTED AREAS.
4. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL FOUR (4) GOLDEN GOAL PORTABLE SR. CLUB SIZED GOALS OR APPROVED EQUAL AND TWO (2) GOLDEN GOAL PORTABLE ELEMENT SIZED GOALS OR APPROVED EQUAL. WWW.SOCCERFIELDGOALS.COM. BASE BID.



GRADING NOTES

1. THE EXISTING CONTOURS SHOWN ARE APPROXIMATE.
2. NO ELEVATION OR HORIZONTAL CONTROL SHALL BE GIVEN TO THE CONTRACTOR.
3. THE CONTRACTOR SHALL GRADE EACH SOCCER FIELD SUCH THAT WITHIN THE FOOTPRINT OF THE FIELD THERE IS A UNIFORM SLOPE (I.E. THERE ARE NO GRADE BREAKS WITHIN THE FOOTPRINT OF THE FIELD) ACROSS THE FIELD. SUCH SLOPE MAY FALL IN ANY DIRECTION AND MINIMIZE CUTS AND FILLS AT BOUNDARIES BUT MUST BE UNIFORM ACROSS THE FOOTPRINT OF THE PLAYING SURFACE. THE CONTRACTOR SHALL NOT IMPORT FILL MATERIAL TO MEET THIS REQUIREMENT BUT SHALL UTILIZE THE EXISTING MATERIAL TO ACHIEVE A UNIFORM SLOPE BEFORE PLACEMENT OF TOPSOIL. THE CONTRACTOR SHALL PROVIDE THE OWNER A SURVEY SHOWING THAT EACH FIELD IS A UNIFORM GRADE PRIOR TO PLACEMENT OF THE TOPSOIL OR SOD. SUCH SURVEY SHALL BE COMPLETED BY A UTAH REGISTERED LAND SURVEYOR.
4. CONTRACTOR SHALL BLEND GRADED PLAYING FIELDS TO EXISTING GRADES OUTSIDE FOOTPRINT OF FIELD. SUCH TRANSITION SLOPES MAY NOT EXCEED 10%.

LEGEND

BASE BID GRADE. SEE SHEET L-102 FOR IRRIGATION PLAN.
 INSTALL 6" OF TOPSOIL AND SOD. COMPLY WITH ALL UJU
 IRRIGATION AND LANDSCAPING STANDARDS. APPROXIMATELY
 240,000 S.F.

**UTAH VALLEY UNIVERSITY
 INTRAMURAL PLAYING FIELD IMPROVEMENTS**

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 UTAH VALLEY UNIVERSITY

PROJECT TITLE:
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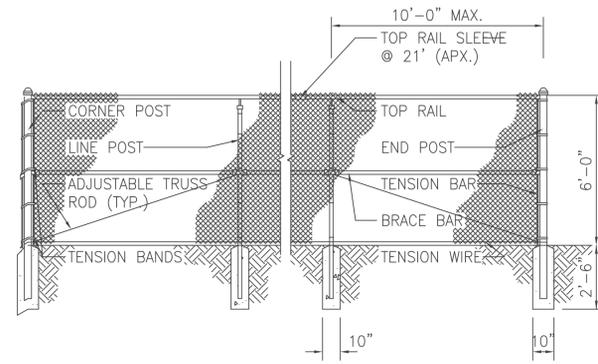
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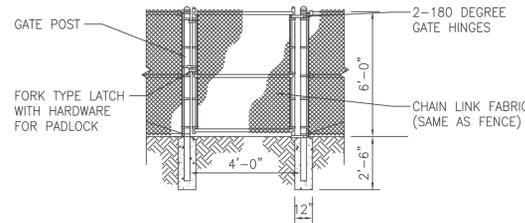
SHEET TITLE:
 LAYOUT PLAN SOUTH

SHEET NUMBER:
C-105





CHAIN LINK FENCE
 SCALE: NTS



CHAIN LINK MAN GATE
 SCALE: NTS

FENCING NOTES:

1. ALL FENCE SHALL BE 6' HIGH CHAIN LINK WITH ALL NEW ZINC-COATED AND HOT DIPPED GALVANIZED STEEL COMPONENTS INCLUDING POSTS, MESH, CAPS, TENSION BARS, GATES, ETC.
2. ALL POSTS SHALL MEET ASTM A-120 AND SHALL BE SCHEDULE 40 HOT DIPPED ZINC COATED STEEL.
3. USE KNUCKLED SELVAGE ON BOTTOM AND TWISTED AND BARBED SELVAE ON TOP.
4. THE MESH SHALL BE 9 GAGE 1 3/8" MESH ZINC-COATED STEEL WIRE AND SHALL BE HELICALLY WOVEN INTO A DIAMOND MESH. IT SHALL MEET THE REQUIREMENTS OF ASTM A 90 AND HAVE A MINIMUM OF 1.2 OUNCES OF ZINC APPLIED PER EACH SQUARE FOOT OF FABRIC.
5. FENCE POST SPACING SHALL BE AT 10'-0" MAX.
6. ALL FENCE SHALL HAVE PRIVACY SLATS INSTALLED. CONTRACTOR SHALL COORDINATE WITH OWNER ON COLOR.

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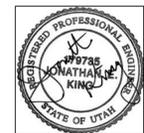
SHEET TITLE

CIVIL DETAILS

SHEET NUMBER

C-501

SHEET 9 OF 12





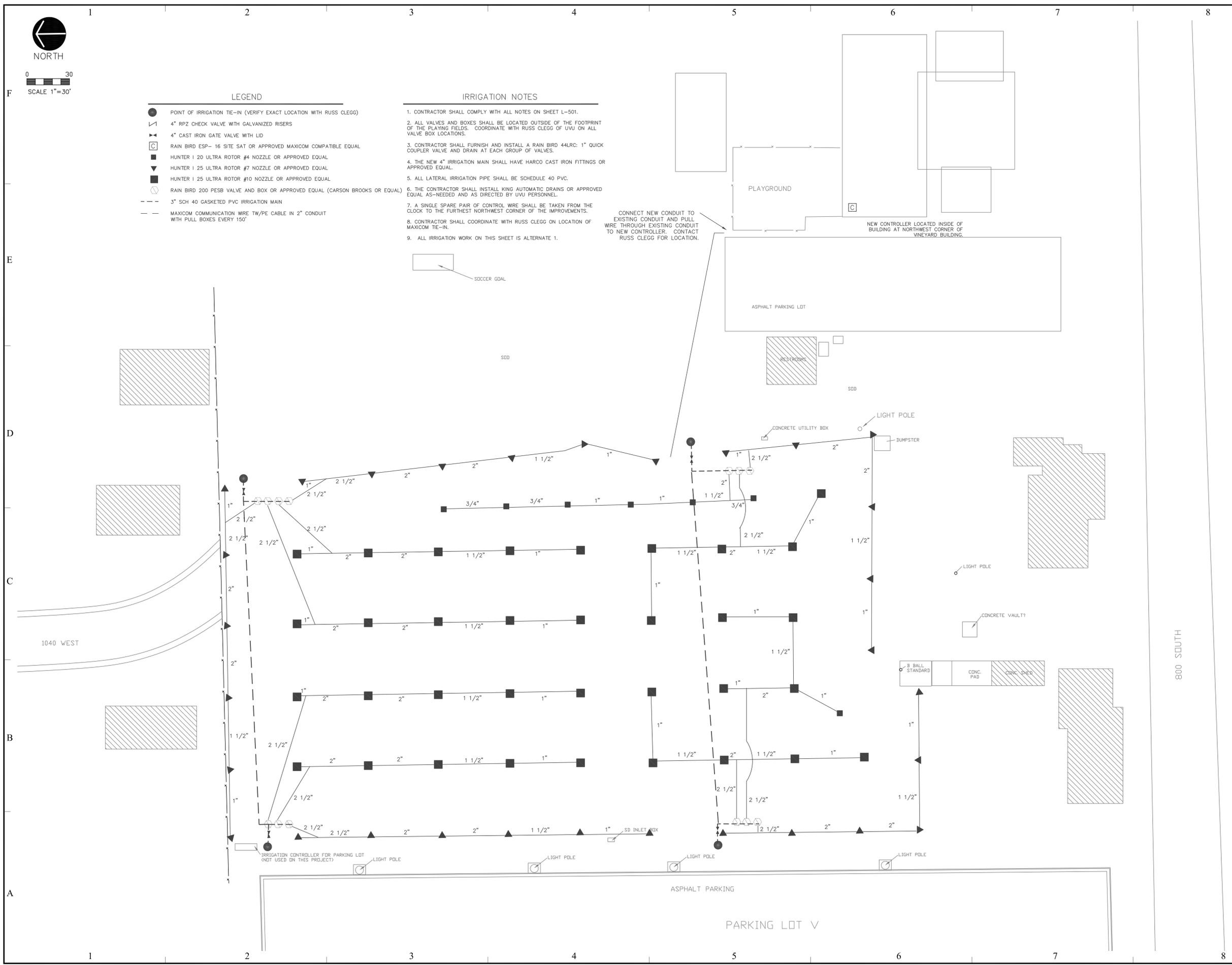
0 30
SCALE 1"=30'

- LEGEND**
- POINT OF IRRIGATION TIE-IN (VERIFY EXACT LOCATION WITH RUSS CLEGG)
 - ┌ 4" RPZ CHECK VALVE WITH GALVANIZED RISERS
 - └ 4" CAST IRON GATE VALVE WITH LID
 - RAIN BIRD ESP- 16 SITE SAT OR APPROVED MAXICOM COMPATIBLE EQUAL
 - HUNTER I 20 ULTRA ROTOR #4 NOZZLE OR APPROVED EQUAL
 - ▼ HUNTER I 25 ULTRA ROTOR #7 NOZZLE OR APPROVED EQUAL
 - ▲ HUNTER I 25 ULTRA ROTOR #10 NOZZLE OR APPROVED EQUAL
 - ◇ RAIN BIRD 200 PESB VALVE AND BOX OR APPROVED EQUAL (CARSON BROOKS OR EQUAL)
 - 3" SCH 40 GASKETED PVC IRRIGATION MAIN
 - - - MAXICOM COMMUNICATION WIRE TW/PE CABLE IN 2" CONDUIT WITH PULL BOXES EVERY 150'

- IRRIGATION NOTES**
1. CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET L-501.
 2. ALL VALVES AND BOXES SHALL BE LOCATED OUTSIDE OF THE FOOTPRINT OF THE PLAYING FIELDS. COORDINATE WITH RUSS CLEGG OF UVU ON ALL VALVE BOX LOCATIONS.
 3. CONTRACTOR SHALL FURNISH AND INSTALL A RAIN BIRD 44LRC: 1" QUICK COUPLER VALVE AND DRAIN AT EACH GROUP OF VALVES.
 4. THE NEW 4" IRRIGATION MAIN SHALL HAVE HARCO CAST IRON FITTINGS OR APPROVED EQUAL.
 5. ALL LATERAL IRRIGATION PIPE SHALL BE SCHEDULE 40 PVC.
 6. THE CONTRACTOR SHALL INSTALL KING AUTOMATIC DRAINS OR APPROVED EQUAL AS-NEEDED AND AS DIRECTED BY UVU PERSONNEL.
 7. A SINGLE SPARE PAIR OF CONTROL WIRE SHALL BE TAKEN FROM THE CLOCK TO THE FURTHEST NORTHWEST CORNER OF THE IMPROVEMENTS.
 8. CONTRACTOR SHALL COORDINATE WITH RUSS CLEGG ON LOCATION OF MAXICOM TIE-IN.
 9. ALL IRRIGATION WORK ON THIS SHEET IS ALTERNATE 1.

CONNECT NEW CONDUIT TO EXISTING CONDUIT AND PULL WIRE THROUGH EXISTING CONDUIT TO NEW CONTROLLER. CONTACT RUSS CLEGG FOR LOCATION.

NEW CONTROLLER LOCATED INSIDE OF BUILDING AT NORTHWEST CORNER OF WINEYARD BUILDING.



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 CREATED BY: KING ENGINEERING, INC.

**UTAH VALLEY UNIVERSITY
INTRAMURAL PLAYING FIELD IMPROVEMENTS**

SITE/LOCATION:

UTAH VALLEY UNIVERSITY

PROJECT TITLE:

INTRAMURAL FIELD IMPROVEMENTS

MARK DATE DESCRIPTION

ISSUE TYPE: BID PLANS

ISSUE DATE: JULY 3, 2009

DFCM PROJECT NO: 09025790

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CHKD BY: JEK

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SHEET TITLE

IRRIGATION PLAN NORTH

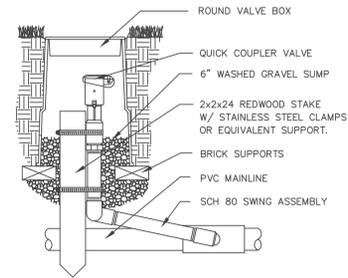
SHEET NUMBER

L-101

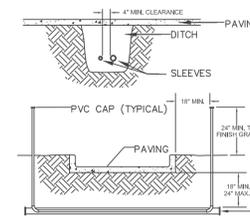
SHEET 10 OF 12

IRRIGATION NOTES

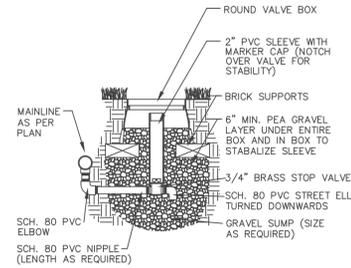
1. BASE BID - 400 WEST SITE. THE CONTRACTOR SHALL CONNECT THE NEW IRRIGATION SYSTEM TO AN EXISTING OREM CITY WATER MAIN IN 400 WEST SOUTH OF THE EXISTING HOME (SEE PLAN). THE CONTRACTOR SHALL EITHER INSTALL OR BE RESPONSIBLE FOR THE FEES TO INSTALL A NEW 3" OREM CITY WATER METER AND VAULT AND RPZ BACKFLOW PREVENTION AT THIS LOCATION. THE CONTRACTOR SHALL MEET ALL OREM CITY REQUIREMENTS IN REGARDS TO THIS CONNECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IMPACT, CONNECTION, INSTALLATION AND ASPHALT REPAIR FEES. THE CONTRACTOR SHALL FURNISH AND INSTALL A CONCRETE PAD AND A NEW RAISED IRRIGATION CONTROLLER PEDESTAL MOUNT WITH A RAIN TIGHT PANEL CAPABLE OF HOLDING TWO CONTROLLERS (APPROXIMATELY 30" X 30" IN SIZE) WITH CONDUITS FOR POWER AND CONTROL WIRING TRAVELING THROUGH THE CONCRETE PAD AT THE BASE. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW RAIN BIRD ESP-24SAT-2W MAXICOM COMPATIBLE CONTROLLER OR APPROVED EQUAL AND INSTALL IN THE RAIN TIGHT PANEL. THE CONTRACTOR SHALL CONNECT THE NEW CONTROLLER TO THE EXISTING MAXICOM SYSTEM (SEE PLAN) MEETING ALL UVU STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL TAKE POWER FROM THE ADJACENT EXISTING HOME (OWNED BY UVU). CONTRACTOR SHALL COORDINATE WITH RUSS CLEGG (801-362-9515) ON LOCATION OF METER, BACKFLOW PREVENTION, CONCRETE PAD AND PEDESTAL MOUNT LOCATION.
2. ALTERNATE 1 - VINEYARD SITE. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW RAINBIRD ESP-16 SITE SAT WALL MOUNTED COMMERCIAL GRADE IRRIGATION CONTROLLER MAXICOM COMPATIBLE OR APPROVED EQUAL INSIDE THE NORTHWEST CORNER OF THE VINEYARD BUILDING (IMMEDIATELY EAST OF THE PROJECT LOCATION) LOCATED NEXT TO THE EXISTING CONTROLLER. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTROL WIRE TO THIS LOCATION AND CONNECT TO CONTROLLER TO THE EXISTING MAXICOM SYSTEM.
3. THE CONTRACTOR SHALL COMPLY WITH ALL UVU IRRIGATION AND LANDSCAPE STANDARDS AS PROVIDED IN THE PROJECT MANUAL AND SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN THESE PLANS AND THE WRITTEN STANDARDS THE WRITTEN STANDARDS SHALL TAKE PRECEDENCE.
4. ANY QUESTIONS REGARDING THE LOCATIONS, TYPES AND CONDITIONS OF THE EXISTING WATER LINE TIE-INS, CONTROLLER, TUNNEL, ETC. MAY BE DIRECTED TO RUSS CLEGG OF UVU AT 801-362-9515.
5. THE CONTRACTOR SHALL NOTIFY RUSS CLEGG OF UVU 48 HOURS IN ADVANCE OF DIGGING.
6. SHEETS L-101 AND L-102 ARE DIAGRAMMATIC ONLY AND ARE INTENDED TO CONVEY THE IDEA OF FULL COVERAGE OF THE IRRIGATION SPRINKLER SYSTEM. PRINTS SHALL NOT BE SCALED. THE IRRIGATION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION LAYOUT OF THE SYSTEM IN ACCORDANCE WITH THE DRAWINGS TO PROPORTIONALLY COVER A GIVEN AREA AS SHOWN. THE LAYOUT MAY BE MODIFIED IF NECESSARY TO OBTAIN COVERAGE TO SUITE THE MANUFACTURERS STANDARD HEADS INDICATED. DO NOT DECREASE THE NUMBER OF HEADS INDICATED UNLESS THIS IS ACCEPTABLE TO THE AGENCY OR ENGINEER. THE SYSTEM SHALL BE TESTED FOR COMPLETE COVERAGE AND ALL NECESSARY PROPER ADJUSTMENTS MADE TO GET FULL AND PROPER COVERAGE PRIOR TO ACCEPTANCE BY THE OWNER.
7. THE SYSTEM IS DESIGN FOR 55 PSI OPERATING PRESSURE ON ALL ROTORS AND 30 PSI OPERATING PRESSURE ON ALL SPRAY HEADS UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY PRESSURE AND USE PRESSURE REDUCERS IF NEEDED.
8. ALL MAIN LINE PIPE SHALL BE CLASS 200 PVC PIPE ALL MAINLINE FITTINGS SHALL BE HARCO CAST FITTINGS. ALL LATERAL LINE PIPE SHALL BE NEW SCH 40 PVC PIPE. FITTINGS ON ALL LATERAL LINES SHALL BE 40 ASTM 2468 FITTINGS UNLESS OTHERWISE SHOWN IN DETAILS.
9. LIVE SERVICE MAINS SHALL BE INSTALLED A MINIMUM OF 18" BELOW FINISH GRADE. BACKFILL TRENCH AROUND LIVE SERVICE MAIN WITH A MINIMUM OF 8" OF ROCK FREE SOIL. LATERAL LINES SHALL BE PLACED A MINIMUM OF 12" BELOW FINISHED GRADE.
10. ALL LINES SHALL SLOPE TO DRAIN. IF FIELD CONDITIONS NECESSITATE, ADD ADDITIONAL DRAINS. ALL DRAINS SHALL BE KING AUTOMATIC DRAINS. THESE DRAINS SHALL BE INSTALLED FOR COMPLETE DRAINAGE OF THE ENTIRE SYSTEM. PROVIDE A 12" DIA. X 12" DEEP GRAVEL SUMP UNDER EACH DRAIN WHICH DRAIN SHALL BE A MIN. OF 6" BELOW GRADE. ALL MANUAL DRAIN VALVES SHALL BE ENCLOSED IN A 2" PVC PIPE WITH A RUBBER CAP EXTENDING TO 1" ABOVE FINISHED GRADE.
11. ALL VALVES WILL BE LOCATED IN GROUPS WHERE SHOWN ON DRAWINGS. A DRAIN VALVE WITH SUMP AND QUICK COUPLER SHALL BE PROVIDED AND INSTALLED AT EACH GROUP OF VALVES. VALVES SHALL BE LOCATED A MINIMUM OF 3' FROM ANY CURB.
12. ALL VALVES TO BE WIRED TO CONTROLLERS USING #14 U.F. WIRE AND PEN-TITE WATER RESISTANT WIRE CONNECTORS. ALL VALVE WIRES UNDER PAVING SHALL BE INSTALLED IN 2" SCH 40 PVC CONDUIT BURIED 24" DEEP. PROVIDE AND INSTALL A DIFFERENT COLOR VALVE WIRE FOR EACH CONTROLLER. RUN ONE EXTRA WIRE FROM THE ADJACENT CONTROLLER TO EACH GROUP OF VALVES FOR FUTURE USE AND STUB INTO THE VALVE BOX.
13. ALL VALVE BOXES SHALL BE JUMBO SIZED PLASTIC BOXES, CARSON BROOKS OR EQUAL.
14. QUANTITIES ARE PROVIDED FOR ESTIMATION PURPOSES ONLY. PROJECT ENGINEER IS NOT RESPONSIBLE FOR QUANTITIES CONTRACTOR SHALL VERIFY ALL QUANTITIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SITE ITEMS DAMAGED INSURING THE SOURCES OF CONSTRUCTION.
16. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF THE IRRIGATION SPRINKLER SYSTEM SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVES, WIRE SPLICES NOT IN A VALVE BOX AND DRAIN VALVES. THE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES OR LIGHT POLES.
17. WHERE CONSTRUCTION ACTIVITIES HAVE DISTURBED THE SITE INSIDE OR OUTSIDE OF THE CONTRACT LIMIT LINE, ALL AREAS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION. REPAIRED AREAS SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH TRANSITION IN GRADING AND MATERIALS FROM EXISTING TO NEW CONSTRUCTION.



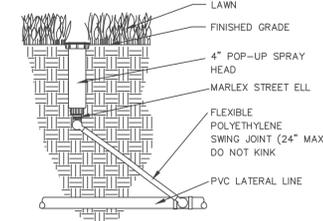
QUICK COUPLER
SCALE: NTS



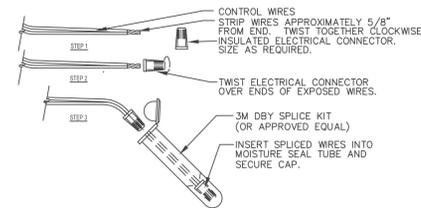
SLEEVING DETAIL
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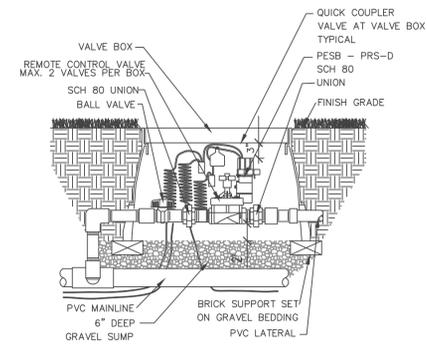
MAINLINE DRAIN
SCALE: NTS



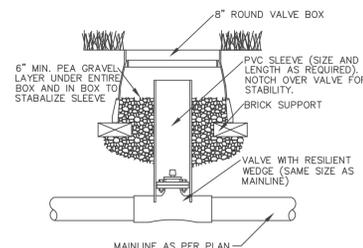
6" POPUP SPRAYHEAD
SCALE: NTS



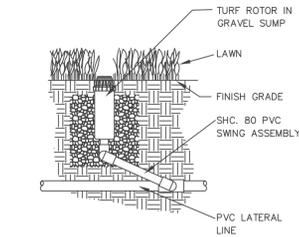
WIRE SPlicing AND VALVE BOX
SCALE: NTS



VALVE ASSEMBLY
SCALE: NTS



GATE VALVE
SCALE: NTS



ROTOR DETAIL
SCALE: NTS

SITE/LOCATION:

UTAH VALLEY UNIVERSITY

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INTRAMURAL FIELD IMPROVEMENTS

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SHEET TITLE

IRRIGATION DETAILS

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L-501

SHEET 12 OF 12